Conveyor Belt Metal Detector

The first DSP metal detector with Intellectual Property Rights in China

Suitable for metal contaminants detection in various industries like: Aquatic Products, Meat & Poultry, Salted Products, Pastry, Nuts, Vegetables, Chemical Raw Materials, Pharmacy, Cosmetics, Toys.

Metal Detector IMD-I Series

Detecting all metal contaminants in packaged and non-packaged food, including ferrous metal(Fe), non-ferrous metals(Copper, Aluminum etc.) and Stainless Steel.

Stable and high sensitivity

- Mature phase adjustment technology, avoiding shortcomings like no phase of LC analog circuit, low stability, without products suppression function and machine aging caused by time and temperature

Auto-setting function

- Fast learn product character automatically and finish Auto-setting process

User friendly function

- Automatic rewind function, dispense with handling large products
- 52 products can be restored in database
- LCD, Chinese-English menu, easy operation

Dust and water proof, easy to be cleaned

Metal Detectors IMD-II Series

Based on IMD-I series, IMD-II series increase the functions of phase tracking, product tracking, auto-balanced calibration, and the craft of stainless steel mirror surface processing etc, which has improved sensitivity and stability greatly.

New function

- Phase tracking function, which can maintain the stable high-sensitivity detection ability
- Product tracking function, which can do adjustment and compensation according to the changes of the product effect automatically
- Auto-balanced calibration function, which can ensure the service life of the machine

Hardware structure optimization

- Applying high functional FPGA plan with single chip machine

User friendly function

- Stainless steel mirror surface, easy design
- Above 100 products can be restored in product database
- USB and Ethernet Interfaces are available

IP66 Dust and water proof

Specifications

Model	IMD-I		IMD-II	
Specifications	4008, 4012 4015, 4018	5020,5025	4008, 4012 4015, 4018	5020,5025
Detection Width	400mm	500mm	400mm	500mm
Detection Height	80mm,120mm 150mm,180mm	200mm 250mm	80mm,120mm 150mm,180mm	200mm 250mm
Sensitivity — Fe	Φ0.5mm,Φ0.6mm Φ0.7mm,Φ0.8mm	Φ1.0mm Φ1.2mm	Φ0.5mm,Φ0.6mm Φ0.7mm,Φ0.8mm	Φ1.0mm Φ1.2mm
Sensitivity — SUS304	Φ1.0mm Φ1.2mm Φ1.5mm Φ2.0mm	Φ2.0mm Φ2.5mm	Φ0.8mm,Φ1.0mm Φ1.2mm,Φ1.5mm	Φ1.5mm Φ2.0mm
Belt Width	360mm	460mm	360mm	460mm
Loading Capacity	5kg~10kg	20kg~100kg	5kg~10kg	20kg~100kg
Display Mode	LCD Liquid Crystal (FDM touch screen is optional)			
Operation Mode	Button Input (Touch input is optional)			
Product Storage Quantity	52 kinds			
Packing Form	Standard plastic or cardboard, metal film (aluminum) and bulk			
Conveyor Belt	Food Grade PVC (PU and Chain Conveyor are optional)			
Belt Speed	Fixed 25m/min (Variable speed is optional)			
Alarm	Alarm and belt stops (Alarm lamp and rejecter are optional)			
Power Supply	AC220V (Optional)			
Levels of Protection	IP30/IP66			
Main Material	SUS304			

Note

1. The technical parameter above namely is the result of sensitivity by detecting only the test sample on the belt. The sensitivity would be affected according to the products being detected, working condition and also the different positions the metal mixed with.

2. Requirements for different sizes by customers can be fulfilled.